



# TRANS TECH CONSULTANTS

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April 11, 2005

Job No. 3034.01

Mr. Jack Tipple  
Tipple Motors, Inc.  
P.O. Box 855  
Ferndale, California 95536

**Subject: 1<sup>st</sup> Quarter 2005 Monitoring Report  
Tipple Motors, Inc., 524 Main Street, Ferndale, California  
LOP # 12052**

Dear Mr. Tipple:

This report presents the results of the 1<sup>st</sup> Quarter 2005 groundwater monitoring and sampling event performed at the subject site. The site is approximately located as shown on the attached Site Location Map, Plate 1. The services were performed in accordance with directives from the Humboldt County Department of Health and Human Services - Division of Environmental Health (HCDHHS-DEH).

### **Monitoring Well Sampling**

On March 16, 2005, groundwater samples were collected from the monitoring wells (wells) MW-1 through MW-7 at the subject site. The approximate well locations and general site features are shown on the attached Site Plan/Groundwater Elevation Contour Map, Plate 2. Prior to sampling, static water levels were measured and each well was checked for the presence of free product using an oil/water interface probe. No free product was detected during this monitoring event. To produce representative samples prior to sampling, the wells were then purged of approximately three well casing volumes using a submersible pump. In addition, indicator parameters including the temperature, pH, and conductivity were measured during purging and recorded on the attached Groundwater Field Sampling Forms, Appendix A. The water levels in each well were allowed to sufficiently recover prior to sample collection. Groundwater samples were collected using a separate disposable bailer for each well and transferred to the appropriate containers supplied by the laboratory. The groundwater samples were labeled, stored on ice, and transported under Chain-of-Custody documentation to Alpha Analytical Laboratories (Alpha) of Ukiah, California for chemical analysis. Purge groundwater generated during the sampling of the wells was stored onsite in 55-gallon DOT approved drums, pending disposal.

### Water Level Measurements

Monitoring well top-of-casing (TOC) elevations, depths to groundwater, calculated water level elevations, and the calculated groundwater flow direction and gradient for the March 16, 2005 monitoring event are tabulated on Table 1. Elevations are expressed in feet relative to Mean Sea Level (msl), depths are expressed in feet, and gradients (*i*) are expressed in feet per foot. Historical groundwater flow direction and gradient data is presented in Appendix B.

**Table 1: Groundwater Flow Direction and Gradient**

Sample Date	Monitoring Well ID	TOC Elevation	Water Level Depth	Water Level Elevation	Groundwater Flow Direction/Gradient
3/16/05	MW-1	53.13	5.00	48.13	Southeasterly $i = 0.02$
	MW-2	53.01	4.65	48.36	
	MW-3	49.42	3.07	46.35	
	MW-4	50.87	3.95	46.92	
	MW-5	49.28	3.10	46.18	
	MW-6	49.14	3.45	45.69	
	MW-7	52.57	4.32	48.25	

Water level elevation contours based on MW-1 through MW-7 for the March 16, 2005 monitoring event are shown on Plate 2.

### Laboratory Analytical Results

Groundwater samples collected from the wells were analyzed for total petroleum hydrocarbons (TPH) as gasoline and TPH as diesel by EPA Test Methods 8260/8015, respectively. The volatile organic compounds: benzene, toluene, ethyl benzene, and xylenes (BTEX), the additional oxygenated fuel additives including methyl tert-butyl ether (MtBE), and lead scavengers were analyzed using EPA Test Method 8260B. The samples were analyzed by Alpha which is a state-certified laboratory for the analysis requested. The laboratory analytical results for the March 16, 2005 event are presented on page 3, Table 2. The results for TPH as gasoline, TPH as diesel, BTEX, and MtBE are expressed in micrograms per liter ( $\mu\text{g}/\text{L}$ ). The laboratory analytical report and chain-of-custody documentation are attached in Appendix C. The historical laboratory analytical results are presented in Appendix D.



**Table 2: Groundwater Analytical Results**

Sample Date	Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
		µg/L						
03/16/05	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	54**
	MW-2 **	46,000	1,500*	4,500	230	1,300	750	<50**
	MW-3	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-4 *	<500	120*	47	<3.0	<5.0	<5.0	18**
	MW-5 *	<1000	75	<6.0	<6.0	<10	<10	<10**
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

< = Indicates the laboratory test method detection limit.  
 + = Reporting Limits have been raised due to sample foaming.  
 ++ = Reporting Limits have been raised to account for matrix interference.  
 \* = Results in the diesel organics range are primarily due to overlap from a gasoline range product.  
 \*\* = Other oxygenated fuel additives / lead scavengers present (see laboratory report)

## Discussion

TPH as gasoline was detected in the sample collected from well MW-2 at a concentration of 46,000 µg/L. TPH as gasoline was not detected in the samples collected from MW-4 and MW-5 during this sampling event due to raised detection limits reportedly caused by sample foaming. TPH as diesel was detected in wells MW-2, MW-4, and MW-5 at concentrations of 1,500 µg/L, 120 µg/L, and 75 µg/L, respectively. However, the laboratory indicated that these results are primarily due to overlap from a gasoline range product. BTEX constituents were detected in wells MW-2 and MW-4 with benzene occurring at a maximum concentration of 4,500 µg/L in MW-2. MtBE was detected in wells MW-1 and MW-4 at concentrations of 54 µg/L and 18 µg/L, respectively. Tert-amyl methyl ether (TAME) was detected in the sample collected from MW-1 at a concentration of 18 µg/L. Di-isopropyl ether (DIPE) was detected in the samples collected from wells MW-2, MW-4, MW-5, and MW-6 at concentrations of 120 µg/L, 16 µg/L, 17 µg/L, and 3.9 µg/L, respectively. The lead scavenger 1,2-dichloroethane was detected in the samples collected from MW-2 at a concentration of 59 µg/L. Samples collected from MW-3 and MW-7 were below laboratory test method detection limits for all the constituents analyzed.

A Time vs. Concentration Graph for monitoring well MW-2 that plots TPH as gasoline, TPH as diesel, and benzene concentrations over time is included as Appendix E. The next monitoring event is scheduled for September 2005.

We are currently preparing a Remedial Action Plan to address residual impact at the site.

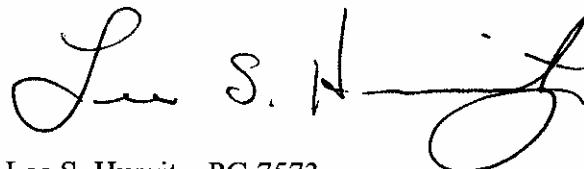


We appreciate the opportunity to be of service to you and trust this report provides the information you require at this time. If you have any questions, or need any additional information, please don't hesitate to contact us at (707) 575-8622 or [www.transtechconsultants.com](http://www.transtechconsultants.com).

Sincerely,  
TRANS TECH CONSULTANTS



Brian R. Hasik  
Staff Geologist



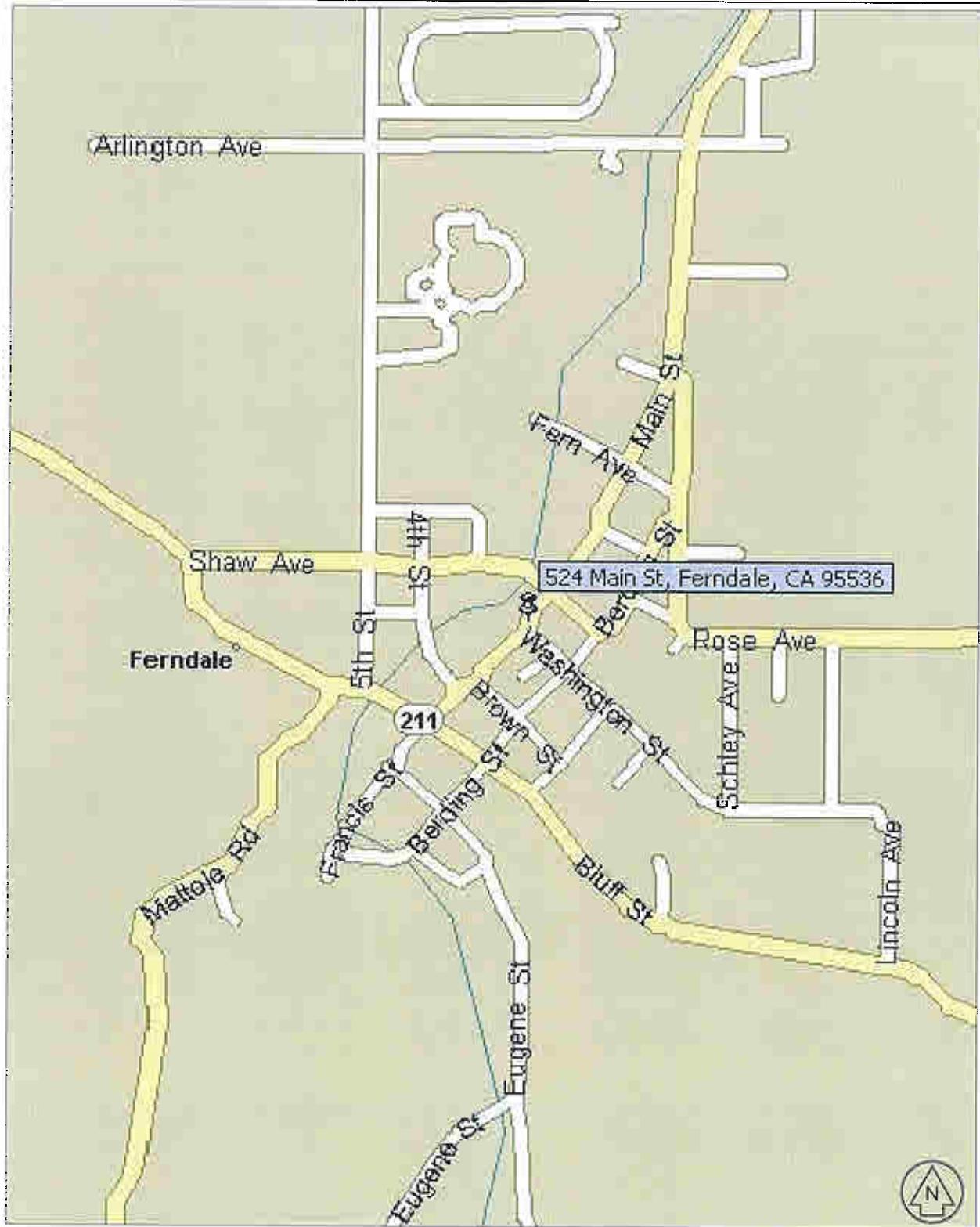
Lee S. Hurvitz, PG 7573  
Senior Geologist



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Attachments: Plate 1, Site Location Map  
Plate 2, Site Plan / Groundwater Elevation Contour Map  
Appendix A, Groundwater Field Sampling Forms  
Appendix B, Historical Groundwater Flow Direction and Gradient Data  
Appendix C, Alpha Analytical Laboratories Report dated March 30, 2005  
Appendix D, Historical Groundwater Analytical Results  
Appendix E: Time vs. Concentration Graph for MW-2  
Distribution List





TRANS TECH CONSULTANTS

930 SHILOH RD., BLDG 44, SUITE J  
WINDSOR, CA 95492  
PHONE: 707-575-8622 FAX: 707-837-7334

SITE LOCATION MAP

TIPPLE MOTORS  
524 MAIN STREET  
FERNDALE, CALIFORNIA

PLATE:

1

DRAWN BY: PSC	DWG NAME: 3034.01 SLM	APPR. BY: LSH	JOB NUMBER: 3034.01	W.O. NUMBER: A-264	REVISIONS:	DATE: 10/9/03
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# GROUNDWATER FLOW LEGEND

Estimated Groundwater Flow Direction		Gradient Contour (Interval = 0.5 ft)	Identifier Tag	Date	Est. Flow Direction	Gradient Slope
		A				
Identifier Tag	Date	Est. Flow Direction	Gradient Slope			
(A)	1/15/02	S65°E	i = 0.01			
(B)	4/22/02	S50°E	i = 0.01			
(C)	7/23/02	S65°E	i = 0.02			
(D)	12/2/02	S65°E	i = 0.02			
(E)	3/27/03	S50°E	i = 0.007			
(F)	5/15/03	S65°E	i = 0.02			
(G)	9/11/03	S65°E	i = 0.02			
(H)	3/5/04	SOUTHEASTERLY	i = 0.03			
(I)	7/1/04	S65°E	i = 0.03			
(J)	3/16/05	SOUTHEASTERLY	i = 0.02			



MW-1 Monitoring Well Location  
[XX.XX] Groundwater Elevation

NOTE: Ground water elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).



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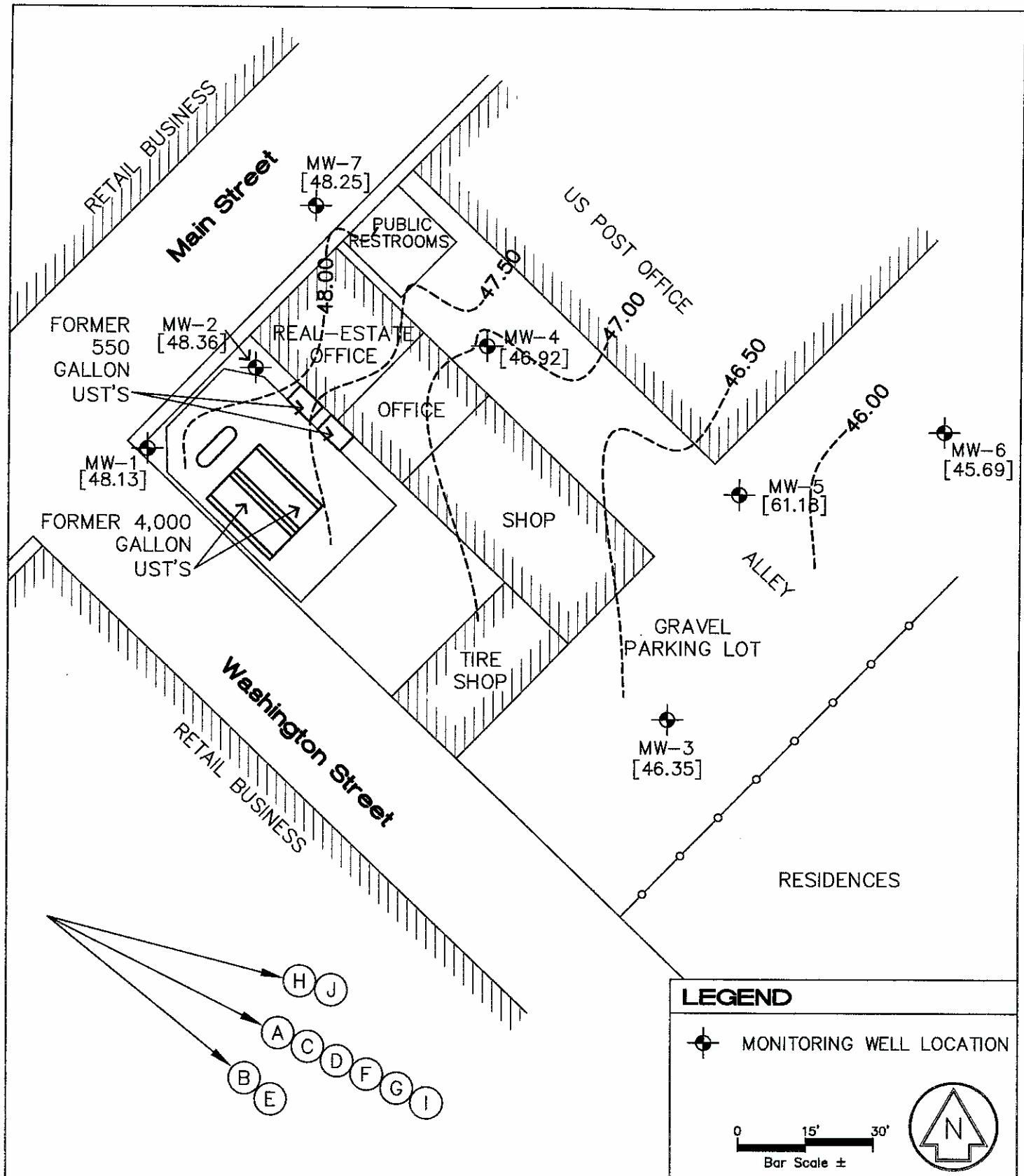
**SITE PLAN /**  
**GROUNDWATER ELEVATION CONTOUR MAP FOR 3/16/05**  
TIPPLE MOTORS, INC.  
524 MAIN STREET  
FERNDALE, CALIFORNIA

PLATE:

2

SHEET: 2 OF 2

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	3034.01 GWFP	LSH	3034.01	A-501		4/5/05



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SITE PLAN/  
GROUNDWATER ELEVATION CONTOUR MAP FOR 3/16/05  
TIPPLE MOTORS, INC.  
524 MAIN STREET  
FERNDALE, CALIFORNIA

PLATE:

3

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	3034.01 GWFP	BRH	3034.01	A-501		4/5/05

## APPENDIX A

### APPENDIX A

#### APPENDIX A

##### APPENDIX A

###### APPENDIX A

# GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION		
Project Number/Name: <b>3034.01 Tipple Motors</b>		Well Number: <b>MW-1</b>
Project Location: <b>524 Main Street Ferndale, California</b>	Casing Diameter: <b>2"</b>	Well Depth from TOC (BP): <b>12.80</b> Well Depth from TOC (AP):
Date: <b>March 16, 2005</b>	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>BH</i>	Product Thickness in inches: <b>8</b>	
	Water Level from TOC: <b>5.00</b>	Time: <b>10:18</b>
Notes: <b>SM. crease in well casing will not allow ss pump to pass - use sm. pump.</b>	Water Level pre-purge: <b>5.00</b>	Time: <b>11:00</b>
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	
	Well EL (TOC):	Well Mat: PVC

## WEATHER

Wind: Yes <input checked="" type="radio"/> No	Clouds: Yes / No	Sun: Yes / <input checked="" type="radio"/>	Precipitation in last 5 days: Yes <input checked="" type="radio"/> No
Rain: Yes <input checked="" type="radio"/> No	Fog: Yes / No		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

<u>TD</u>	<u>WL</u>	<u>Dia. Inches</u>	<u>1.25</u>	<u>gallons in one well volume</u>
<u>3.74</u>			<u>5</u>	<u>gallons in 3 well volumes (Approx. 0.6 gal/ft)</u>

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
11:15	1	6.22	14.5	106		613.6	L
11:16	2	6.21	14.2	106		616.7	L
11:17	3	6.20	14.4	94		655.9	L
11:17	4	6.19	14.5	45		671.16	L
11:18	5	6.18	14.8	10		674.7	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: **5.05** Time: **11:10**

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: **4** Soil: **1** Other: **0**

# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name: 3034.01 Tipple Motors		Well Number: <b>MW-2</b>
Project Location: 524 Main Street Ferndale, California	Casing Diameter: 2"	Well Depth from TOC (BP): <b>12.75</b> Well Depth from TOC (AP):
Date: March 16, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>Brian</i>	Product Thickness in inches: <b>8</b>	
	Water Level from TOC: <b>4.65</b>	Time: <b>10:21</b>
Notes: HC CDOT	Water Level pre-purge: <b>4.65</b>	Time: <b>12:13</b>
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	
	Well EL (TOC):	Well Mat: PVC

## WEATHER

Wind: Yes <input checked="" type="checkbox"/> No	Clouds: Yes <input type="checkbox"/> No	Sun: Yes <input type="checkbox"/> No	Precipitation in last 5 days: Yes <input checked="" type="checkbox"/> No
Rain: Yes <input checked="" type="checkbox"/> No	Fog: Yes <input type="checkbox"/> No		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

$(\frac{TD}{WL}) \times (\frac{WL}{Dia. \text{ Inches}}) \times 0.0408 = 1.30$  gallons in one well volume

**3.89** gallons in 3 well volumes (Approx. 0.6 gal/ft)      **5** total gallons purged

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
12:17	1	6.34	14.7	-86		1466	L
12:18	2	6.37	14.5	-104		1422	L
12:18	3	6.37	14.4	-112		1458	L
12:19	4	6.39	14.6	-113		1507	L
12:20	5	6.39	14.7	-114		1504	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: **4.79** Time: **1:40**

Appearance of Sample: *sheen noticed on samples*

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: **4** Soil: **1** Other: **D**

# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name: 3034.01 Tipple Motors		Well Number: MW-3
Project Location: 524 Main Street Ferndale, California		Casing Diameter: 2"
Date: March 16, 2005		Top of Screen: Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>Brian</i>		Product Thickness in inches: <i>8</i>
		Water Level from TOC: <i>3.10</i> Time: <i>10:16</i>
Notes:		Water Level pre-purge: <i>3.07</i> Time: <i>10:46</i>
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:
		Well EL (TOC): Well Mat: PVC

## WEATHER

Wind: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Clouds: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sun: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Precipitation in last 5 days: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Rain: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Fog: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

$$(\frac{\text{TD}}{\text{WL}} - \frac{\text{WL}}{\text{WL}}) \times (\frac{1}{\text{Dia. Inches}}) \times 0.0408 = \frac{1.90}{1} \text{ gallons in one well volume}$$

*5.68* gallons in 3 well volumes (Approx. 0.6 gal/ft) *6* total gallons purged

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
<i>10:42</i>	<i>1</i>	<i>6.44</i>	<i>13.8</i>	<i>90</i>		<i>364.5</i>	<i>L</i>
<i>10:43</i>	<i>2</i>	<i>6.44</i>	<i>13.6</i>	<i>88</i>		<i>356.0</i>	<i>L</i>
<i>10:44</i>	<i>4</i>	<i>6.43</i>	<i>13.6</i>	<i>83</i>		<i>361.7</i>	<i>L</i>
<i>10:46</i>	<i>6</i>	<i>6.43</i>	<i>13.6</i>	<i>81</i>		<i>360.6</i>	<i>L</i>

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: *3.11*

Time: *12:50*

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: *4* Soil: *1* Other: *8*

# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name: 3034.01 Tipple Motors		Well Number: MW-4	
Project Location: 524 Main Street Ferndale, California		Casing Diameter: 2"	
Date: March 16, 2005		Top of Screen: Initial Well Depth:	
Sampled by (print and sign): Brian Hasik 		Product Thickness in inches: 0	
		Water Level from TOC: 3.85	Time: 10:20
Notes:		Water Level pre-purge: 3.85	Time: 11:42
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	
		Well EL (TOC):	Well Mat: PVC

## WEATHER

Wind: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Clouds: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Sun: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Precipitation in last 5 days: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Rain: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Fog: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(TD - WL) X (Dia. Inches)<sup>2</sup> X 0.0408 = 1.73 gallons in one well volume  
5.18 gallons in 3 well volumes (Approx. 0.6 gal/ft) 6 total gallons purged

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / μS	Turbidity H/M/L
11:44	1	6.38	13.2	-8		557.1	L
11:45	2	6.37	13.2	1		430.7	L
11:46	4	6.39	13.1	6		752.6	L
11:48	6	6.34	13.3	9		673.2	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 4.05 Time: 1:30

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: 4 Soil: 1 Other: 8

# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name:	3034.01 Tipple Motors		Well Number: MW-5
Project Location:	524 Main Street Ferndale, California	Casing Diameter: 2"	Well Depth from TOC (BP): 7-80 Well Depth from TOC (AP):
Date:	March 16, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>BH</i>	Product Thickness in inches:		
	Water Level from TOC: 3.40 Time: 10:19		
Notes:	Water Level pre-purge: 3.10 Time: 11:29		
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:		
	Well EL (TOC): Well Mat: PVC		

## WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

$( \frac{TD}{WL} ) \times ( \frac{1}{Dia. \text{ Inches}} )^2 \times 0.0408 = 1.87$  gallons in one well volume

$5.62 \times 1.87 = 10.4$  gallons in 3 well volumes (Approx. 0.6 gal/ft) total gallons purged

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
11:28	1	6.23	14.3	-18		620.8	L
11:29	2	6.19	14.1	-8		620.6	L
11:30	4	6.20	13.9	-8		624.5	L
11:32	6	6.20	14.0	-19		627.4	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 3.50 Time: 1:20

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: 4 Soil: 1 Other: 8

# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name: 3034.01 Tipple Motors		Well Number: MW-6
Project Location: 524 Main Street Ferndale, California		Casing Diameter: 2"
Date: March 16, 2005		Top of Screen: Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>Brian Hasik</i>		Product Thickness in inches: <i>0</i>
		Water Level from TOC: 3.53 Time: 10:18
Notes: Misty box Jammed Needs repair		Water Level pre-purge: 3.45 Time: 10:49
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:
		Well EL (TOC): Well Mat: PVC

## WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(TD - WL) X (Dia. Inches)<sup>2</sup> X 0.0408 = 1.82 gallons in one well volume

5.45 gallons in 3 well volumes (Approx. 0.6 gal/ft) 6 total gallons purged

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection: &lt;10% pH and EC change, &lt;0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
10:51	1	6.52	13.6	60		541.6	1
10:51	2	6.52	13.3	61		562.6	1
10:53	4	6.52	13.3	62		545.2	1
10:55	6	6.51	13.5	66		513.5	1

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 3.54 Time: 1200

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: 4 Soil: 1 Other: 8

# GROUNDWATER FIELD SAMPLING FORM

## WELL INFORMATION

Project Number/Name:	3034.01 Tipple Motors		Well Number: MW-7
Project Location:	524 Main Street Ferndale, California	Casing Diameter: 2"	Well Depth from TOC (BP): 13.70 Well Depth from TOC (AP):
Date:	March 16, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>Brian</i>	Product Thickness in inches: 8		
	Water Level from TOC: 4.34		Time: 10:15
Notes:	Water Level pre-purge: 4.32		Time: 10:28
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:		
Well EL (TOC):			Well Mat: PVC

## WEATHER

Wind: Yes / No      Clouds: Yes / No      Sun: Yes / No      Precipitation in last 5 days: Yes / No  
 Rain: Yes / No      Fog: Yes / No

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

( TD - WL ) X ( Dia. Inches )<sup>2</sup> X 0.0408 = 1.50 gallons in one well volume

*4.5* gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

## FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / μS	Turbidity H/M/L
10:33	1	14.0	6.55	80		502.9	L
10:34	2	6.50	13.8	82		495.7	L
10:35	3	6.57	13.7	82		487.7	L
10:35	4	6.49	13.8	81		497.1	L
10:36	5	6.48	13.8	81		510.0	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 4.90

Time: 12:40

## Appearance of Sample:

Bailer: Disposable      Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: 4      Soil: 1      Other: 8

## APPENDIX B

### APPENDIX B

#### APPENDIX B

##### APPENDIX B

###### APPENDIX B

## Appendix B - Historical Groundwater Flow Direction and Gradient Data

Sample Date	Monitoring Well ID	TOC Elevation	Water Level Depth	Water Level Elevation	Groundwater Flow Direction/Gradient
04/17/99	MW-1	NA	NA	NA	NA
	MW-2	NA	NA	NA	
	MW-3	NA	NA	NA	
	MW-4	NA	NA	NA	
	MW-5	NA	NA	NA	
12/29/99	MW-1	NM	NM	NM	N10°E i = 0.011
	MW-2	53.01	5.25	47.76	
	MW-3	NM	NM	NM	
	MW-4	50.87	3.36	47.51	
	MW-5	49.28	3.48	47.80	
03/28/00	MW-1	53.13	4.90	48.23	N86°E i = 0.025
	MW-2	53.01	4.15	48.86	
	MW-3	49.42	2.63	46.79	
	MW-4	50.87	3.52	47.35	
	MW-5	49.28	2.50	46.78	
07/05/00	MW-1	53.13	5.31	47.82	N77°E i = 0.032
	MW-2	53.01	4.70	48.31	
	MW-3	49.42	3.31	46.11	
	MW-4	50.87	4.53	46.34	
	MW-5	49.28	5.15	44.13	
NA = Not available. NM = Not measured.					

**Appendix B - Continued**

Sample Date	Monitoring Well ID	TOC Elevation	Water Level Depth	Water Level Elevation	Groundwater Flow Direction/Gradient
10/11/00	MW-1	53.13	5.51	47.62	N 82° E i = 0.023
	MW-2	53.01	5.37	47.64	
	MW-3	49.42	3.19	46.23	
	MW-4	50.87	4.98	45.89	
	MW-5	49.28	3.78	45.50	
12/19/00	MW-1	53.13	5.14	47.99	N 80° E i = 0.017
	MW-2	53.01	4.72	48.29	
	MW-3	49.42	2.23	47.19	
	MW-4	50.87	3.60	47.27	
	MW-5	49.28	4.01	45.27	
03/28/01	MW-1	53.13	4.30	48.83	S 88° E i = 0.024
	MW-2	53.01	4.29	48.72	
	MW-3	49.42	1.86	47.56	
	MW-4	50.87	3.15	47.72	
	MW-5	49.28	3.68	45.60	
07/26/01	MW-1	53.13	5.12	48.01	S 80° E i = 0.021
	MW-2	53.01	4.97	48.04	
	MW-3	49.42	3.66	45.76	
	MW-4	50.87	4.22	46.65	
	MW-5	49.28	3.96	45.32	



## Appendix B - Continued

Sample Date	Monitoring Well ID	TOC Elevation	Water Level Depth	Water Level Elevation	Groundwater Flow Direction/Gradient
10/16/01	MW-1	53.13	5.16	47.97	S75°W i = 0.02
	MW-2	53.01	5.17	47.84	
	MW-3	49.42	4.09	45.33	
	MW-4	50.87	4.57	46.30	
	MW-5	49.28	4.01	45.27	
01/15/02	MW-1	53.13	4.25	48.88	S65°E i = 0.014
	MW-2	53.01	3.95	49.06	
	MW-3	49.42	2.01	47.41	
	MW-4	50.87	3.19	47.68	
	MW-5	49.28	2.10	47.18	
04/22/02	MW-1	53.13	4.72	48.41	S50°E i = 0.01
	MW-2	53.01	4.15	48.86	
	MW-3	49.42	2.52	46.90	
	MW-4	50.87	3.34	47.53	
	MW-5	49.28	2.41	46.87	
07/23/02	MW-1	53.13	5.20	47.93	S65°E i = 0.02
	MW-2	53.01	4.62	48.39	
	MW-3	49.42	3.52	45.90	
	MW-4	50.87	3.84	47.03	
	MW-5	49.28	3.36	45.92	
12/02/02	MW-1	53.13	5.28	47.85	S65°E i = 0.02
	MW-2	53.01	5.12	47.89	
	MW-3	49.42	3.41	46.01	
	MW-4	50.87	3.49	47.38	
	MW-5	49.28	3.06	46.22	
	MW-6	49.14	3.72	45.42	
	MW-7	52.57	4.61	47.96	



## Appendix B - Continued

Sample Date	Monitoring Well ID	TOC Elevation	Water Level Depth	Water Level Elevation	Groundwater Flow Direction/Gradient
03/27/03	MW-1	53.13	4.22	48.91	S50°E i = 0.007
	MW-2	53.01	3.78	49.23	
	MW-3	49.42	0.82	48.60	
	MW-4	50.87	2.31	48.56	
	MW-5	49.28	0.78	48.50	
	MW-6	49.14	1.25	47.89	
	MW-7	52.57	3.41	49.16	
05/15/03	MW-1	53.13	4.59	48.54	S65°E i = 0.019
	MW-2	53.01	4.10	48.91	
	MW-3	49.42	2.47	46.95	
	MW-4	50.87	3.68	47.19	
	MW-5	49.28	2.49	46.79	
	MW-6	49.14	3.03	46.11	
	MW-7	52.57	4.09	48.48	
09/11/03	MW-1	53.13	5.36	47.77	S65°E i = 0.02
	MW-2	53.01	5.28	47.73	
	MW-3	49.42	3.36	46.06	
	MW-4	50.87	4.94	45.93	
	MW-5	49.28	3.59	45.69	
	MW-6	49.14	4.22	44.92	
	MW-7	52.57	4.79	47.78	
3/04/04	MW-1	53.13	4.43	51.70	Southeasterly i = 0.03
	MW-2	53.01	3.99	49.02	
	MW-3	49.42	1.93	47.49	
	MW-4	50.87	3.37	47.50	
	MW-5	49.28	2.17	47.11	
	MW-6	49.14	2.63	46.51	
	MW-7	52.57	3.81	48.76	



**Appendix B - Continued**

<b>Sample Date</b>	<b>Monitoring Well ID</b>	<b>TOC Elevation</b>	<b>Water Level Depth</b>	<b>Water Level Elevation</b>	<b>Groundwater Flow Direction/Gradient</b>
7/01/04	MW-1	53.13	5.21	49.92	S 65°E i = 0.03
	MW-2	53.01	4.90	48.11	
	MW-3	49.42	3.90	45.52	
	MW-4	50.87	4.65	46.22	
	MW-5	49.28	3.91	45.37	
	MW-6	49.14	4.21	44.93	
	MW-7	52.57	4.20	48.37	
3/16/05	MW-1	53.13	5.00	48.13	Southeasterly i = 0.02
	MW-2	53.01	4.65	48.36	
	MW-3	49.42	3.07	46.35	
	MW-4	50.87	3.95	46.92	
	MW-5	49.28	3.10	46.18	
	MW-6	49.14	3.45	45.69	
	MW-7	52.57	4.32	48.25	



## APPENDIX C

### ANSWER KEY

#### ANSWER KEY FOR APPENDIX A

#### ANSWER KEY FOR APPENDIX B

#### ANSWER KEY FOR APPENDIX C

#### ANSWER KEY FOR APPENDIX D

#### ANSWER KEY FOR APPENDIX E

#### ANSWER KEY FOR APPENDIX F

#### ANSWER KEY FOR APPENDIX G

#### ANSWER KEY FOR APPENDIX H

#### ANSWER KEY FOR APPENDIX I

#### ANSWER KEY FOR APPENDIX J

#### ANSWER KEY FOR APPENDIX K

#### ANSWER KEY FOR APPENDIX L

#### ANSWER KEY FOR APPENDIX M

#### ANSWER KEY FOR APPENDIX N

#### ANSWER KEY FOR APPENDIX O



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208 Mason St. Ukiah, California 95482

3034.01

30 March 2005

Trans Tech Consultants

Attn: Bill Wiggins

930 Shiloh Rd., Bldg.44, Suite J

Windsor, CA 95492

RE: Tipple Motors

Work Order: A503565

Enclosed are the results of analyses for samples received by the laboratory on 03/17/05 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*Sheri Speaks*

Sheri L. Speaks  
Project Manager



*alpha*

Alpha Analytical Laboratories Inc.

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208 Mason St, Ukiah, California 95482

Page 1 of 17

**CHEMICAL EXAMINATION REPORT**

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42  
Project No: 3034.01  
Project ID: Tipple Motors

Order Number A503565	Receipt Date/Time 03/17/2005 15:10	Client Code TRANSTEC	Client PO/Reference
-------------------------	---------------------------------------	-------------------------	---------------------

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A503565-01	Water	03/16/05 13:10	03/17/05 15:10
MW-2	A503565-02	Water	03/16/05 13:40	03/17/05 15:10
MW-3	A503565-03	Water	03/16/05 12:50	03/17/05 15:10
MW-4	A503565-04	Water	03/16/05 13:30	03/17/05 15:10
MW-5	A503565-05	Water	03/16/05 13:20	03/17/05 15:10
MW-6	A503565-06	Water	03/16/05 13:00	03/17/05 15:10
MW-7	A503565-07	Water	03/16/05 12:40	03/17/05 15:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Sheri Speaks*

Sheri L. Speaks  
Project Manager

3/30/2005



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## CHEMICAL EXAMINATION REPORT

Page 2 of 17

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503565	03/17/2005 15:10	TRANSTEC	

## Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>MW-1 (A503565-01)</b>							
<b>TPH by EPA/LUFT GC/GCMS Methods</b>							
TPH as Diesel	8015DRO	AC52822	03/28/05	03/28/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AC52908	03/28/05	03/29/05	"	ND "	50
<i>Surrogate: 1,4-Bromofluorobenzene</i>	8015DRO	AC52822	03/28/05	03/28/05		77.0 %	20-152
<i>Surrogate: Toluene-d8</i>	8260GRO	AC52908	03/28/05	03/29/05		96.8 %	70-129
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Benzene	EPA 8260B	AC52916	"	03/29/05	1	ND ug/l	0.30
Toluene	"	"	"	"	"	ND "	0.30
Ethylbenzene	"	"	"	"	"	ND "	0.50
Xylenes (total)	"	"	"	"	"	ND "	0.50
<b>Methyl tert-butyl ether</b>	"	"	"	"	"	54 "	0.50
Di-isopropyl ether	"	"	"	"	"	ND "	0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50
<b>Tert-amyl methyl ether</b>	"	"	"	"	"	18 "	0.50
Tert-butyl alcohol	"	"	"	"	"	ND "	10
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
<i>Surrogate: Bromofluorobenzene</i>	"	"	"	"		97.2 %	45-147
<i>Surrogate: Dibromofluoromethane</i>	"	"	"	"		87.2 %	85-129
<i>Surrogate: Toluene-d8</i>	"	"	"	"		96.8 %	74-137

<b>MW-2 (A503565-02)</b>							
<b>TPH by EPA/LUFT GC/GCMS Methods</b>							
TPH as Diesel	8015DRO	AC52822	03/28/05	03/28/05	1	1500 ug/l	50
TPH as Gasoline	8260GRO	AC52908	03/28/05	03/29/05	100	46000 "	5000
<i>Surrogate: 1,4-Bromofluorobenzene</i>	8015DRO	AC52822	03/28/05	03/28/05		66.3 %	20-152
<i>Surrogate: Toluene-d8</i>	8260GRO	AC52908	03/28/05	03/29/05		95.6 %	70-129

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri L. Speaks  
Project Manager

3/30/2005



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### CHEMICAL EXAMINATION REPORT

Page 3 of 17

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503565	03/17/2005 15:10	TRANSTEC	

#### Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>MW-2 (A503565-02)</b>							
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Benzene	EPA 8260B	AC52916	03/25/05	03/26/05	500	4500 ug/l	150
Toluene	"	"	"	03/29/05	100	230 "	30
Ethylbenzene	"	"	"	"	"	1300 "	50
Xylenes (total)	"	"	"	"	"	750 "	50
Methyl tert-butyl ether	"	"	"	"	"	ND "	50
Di-isopropyl ether	"	"	"	"	"	120 "	50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	50
Tert-amyl methyl ether	"	"	"	"	"	ND "	50
Tert-butyl alcohol	"	"	"	"	"	ND "	1000
1,2-Dichloroethane	"	"	"	"	"	59 "	50
Chlorobenzene	"	"	"	"	"	ND "	50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	R-06
1,4-Dichlorobenzene	"	"	"	"	"	ND "	R-06
1,2-Dichlorobenzene	"	"	"	"	"	ND "	R-06
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	R-06
Surrogate: Bromofluorobenzene	"	"	"	"	"	96.8 %	45-147
Surrogate: Dibromofluoromethane	"	"	"	"	"	82.4 %	85-129
Surrogate: Toluene-d8	"	"	"	"	"	95.6 %	S-GC 74-137

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	
<b>MW-3 (A503565-03)</b>							
<b>TPH by EPA/LUFT GC/GCMS Methods</b>							
TPH as Diesel	8015DRO	AC52822	03/28/05	03/28/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AC52801	03/25/05	03/25/05	"	ND "	50
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AC52822	03/28/05	03/28/05	"	71.7 %	20-152
Surrogate: Toluene-d8	8260GRO	AC52801	03/25/05	03/25/05	"	99.2 %	70-129

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Sheri Speaks*



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208 Mason St. Ukiah, California 95482

Page 4 of 17

**CHEMICAL EXAMINATION REPORT**

Trans Tech Consultants  
 930 Shiloh Rd., Bldg.44, Suite J  
 Windsor, CA 95492  
 Attn: Bill Wiggins

Report Date: 03/30/05 11:42  
 Project No: 3034.01  
 Project ID: Tipple Motors

Order Number: A503565	Receipt Date/Time 03/17/2005 15:10	Client Code TRANSTEC	Client PO/Reference
--------------------------	---------------------------------------	-------------------------	---------------------

**Alpha Analytical Laboratories, Inc.**

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>MW-3 (A503565-03)</b>							
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Benzene	EPA 8260B	ACS2808	"	03/25/05	1	ND ug/l	0.30
Toluene	"	"	"	"	"	ND "	0.30
Ethylbenzene	"	"	"	"	"	ND "	0.50
Xylenes (total)	"	"	"	"	"	ND "	0.50
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Di-isopropyl ether	"	"	"	"	"	ND "	0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50
Tert-butyl alcohol	"	"	"	"	"	ND "	10
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
Surrogate: Bromofluorobenzene	"	"	"	"		97.6 %	45-147
Surrogate: Dibromofluoromethane	"	"	"	"		87.6 %	85-129
Surrogate: Toluene-d8	"	"	"	"		99.2 %	74-137

**MW-4 (A503565-04)****Sample Type: Water****Sampled: 03/16/05 13:30****TPH by EPA/LUFT GC/GCMS Methods**

TPH as Diesel	8015DRO	AC52822	03/28/05	03/28/05	1	120 ug/l	50	D-08
TPH as Gasoline	8260GRO	AC52801	03/25/05	03/26/05	10	ND "	500	R-04
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AC52822	03/28/05	03/28/05		68.6 %	20-152	
Surrogate: Toluene-d8	8260GRO	AC52801	03/25/05	03/26/05		98.4 %	70-129	R-04

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Sheri Speaks*



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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### CHEMICAL EXAMINATION REPORT

Page 5 of 17

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number A503565	Receipt Date/Time 03/17/2005 15:10	Client Code TRANSTEC	Client PO/Reference
-------------------------	---------------------------------------	-------------------------	---------------------

#### Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
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##### MW-4 (A503565-04)

###### Volatile Organic Compounds by EPA Method 8260B

R-04

Benzene	EPA 8260B	ACS2808	"	03/26/05	10	47 ug/l	3.0
Toluene	"	"	"	"	"	ND "	3.0
Ethylbenzene	"	"	"	"	"	ND "	5.0
Xylenes (total)	"	"	"	"	"	ND "	5.0
Methyl tert-butyl ether	"	"	"	"	"	18 "	5.0
Di-isopropyl ether	"	"	"	"	"	16 "	5.0
Ethyl tert-butyl ether	"	"	"	"	"	ND "	5.0
Tert-amyl methyl ether	"	"	"	"	"	ND "	5.0
Tert-butyl alcohol	"	"	"	"	"	ND "	100
1,2-Dichloroethane	"	"	"	"	"	ND "	5.0
Chlorobenzene	"	"	"	"	"	ND "	5.0
1,3-Dichlorobenzene	"	"	"	"	"	ND "	5.0
1,4-Dichlorobenzene	"	"	"	"	"	ND "	5.0
1,2-Dichlorobenzene	"	"	"	"	"	ND "	5.0
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	5.0
Surrogate: Bromofluorobenzene	"	"	"	"	"	97.6 %	45-147
Surrogate: Dibromofluoromethane	"	"	"	"	"	89.6 %	85-129
Surrogate: Toluene-d8	"	"	"	"	"	98.4 %	74-137

##### MW-5 (A503565-05)

###### TPH by EPA/LUFT GC/GCMS Methods

Sample Type: Water

Sampled: 03/16/05 13:20

TPH as Diesel	8015DRO	AC52822	03/28/05	03/29/05	1	75 ug/l	50	D-08
TPH as Gasoline	8260GRO	AC52801	03/25/05	03/26/05	20	ND "	1000	R-04
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AC52822	03/28/05	03/29/05	"	71.0 %	20-152	
Surrogate: Toluene-d8	8260GRO	AC52801	03/25/05	03/26/05	"	98.6 %	70-129	R-04

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*Sheri Speaks*

Sheri L. Speaks  
Project Manager

3/30/2005



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208 Mason St, Ukiah, California 95482

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### CHEMICAL EXAMINATION REPORT

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503565	03/17/2005 15:10	TRANSTEC	

### Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>MW-5 (A503565-05)</b>							
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Benzene	EPA 8260B	ACS2808	"	03/26/05	20	ND ug/l	6.0
Toluene	"	"	"	"	"	ND "	6.0
Ethylbenzene	"	"	"	"	"	ND "	10
Xylenes (total)	"	"	"	"	"	ND "	10
Methyl tert-butyl ether	"	"	"	"	"	ND "	10
Di-isopropyl ether	"	"	"	"	"	17 "	10
Ethyl tert-butyl ether	"	"	"	"	"	ND "	10
Tert-amyl methyl ether	"	"	"	"	"	ND "	10
Tert-butyl alcohol	"	"	"	"	"	ND "	200
1,2-Dichloroethane	"	"	"	"	"	ND "	10
Chlorobenzene	"	"	"	"	"	ND "	10
1,3-Dichlorobenzene	"	"	"	"	"	ND "	10
1,4-Dichlorobenzene	"	"	"	"	"	ND "	10
1,2-Dichlorobenzene	"	"	"	"	"	ND "	10
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	10
Surrogate: Bromofluorobenzene	"	"	"	"		97.6 %	45-147
Surrogate: Dibromofluoromethane	"	"	"	"		86.8 %	85-129
Surrogate: Toluene-d8	"	"	"	"		98.6 %	74-137

### MW-6 (A503565-06)

#### TPH by EPA/LUFT GC/GCMS Methods

Sample Type: Water

Sampled: 03/16/05 13:00

TPH as Diesel	8015DRO	AC52822	03/28/05	03/29/05	1	ND ug/l	50
TPH as Gasoline	8260GRO	AC52801	03/25/05	03/26/05	"	ND "	50
Surrogate: 1,4-Bromoformobenzene	8015DRO	AC52822	03/28/05	03/29/05		65.8 %	20-152
Surrogate: Toluene-d8	8260GRO	AC52801	03/25/05	03/26/05		97.2 %	70-129

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*Sheri Speaks*

Sheri L. Speaks  
Project Manager

3/30/2005



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## CHEMICAL EXAMINATION REPORT

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Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number A503565	Receipt Date/Time 03/17/2005 15:10	Client Code TRANSTEC	Client PO/Reference
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### Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>MW-6 (A503565-06)</b>							
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Benzene	EPA 8260B	AC52808	"	03/26/05	1	ND ug/l	0.30
Toluene	"	"	"	"	"	ND "	0.30
Ethylbenzene	"	"	"	"	"	ND "	0.50
Xylenes (total)	"	"	"	"	"	ND "	0.50
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Di-isopropyl ether	"	"	"	"	"	3.9 "	0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50
Tert-butyl alcohol	"	"	"	"	"	ND "	10
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
Surrogate: Bromofluorobenzene	"	"	"	"		95.2 %	45-147
Surrogate: Dibromofluoromethane	"	"	"	"		86.0 %	85-129
Surrogate: Toluene-d8	"	"	"	"		97.2 %	74-137

**MW-7 (A503565-07)**

### TPH by EPA/LUFT GC/GCMS Methods

			Sample Type: Water		Sampled: 03/16/05 12:40
TPH as Diesel	8015DRO	AC52822	03/28/05	03/29/05	1 ND ug/l 50
TPH as Gasoline	8260GRO	AC52801	03/25/05	03/26/05	" ND " 50
Surrogate: 1,4-Bromofluorobenzene	8015DRO	AC52822	03/28/05	03/29/05	77.5 % 20-152
Surrogate: Toluene-d8	8260GRO	AC52801	03/25/05	03/26/05	99.6 % 70-129

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*Sheri Speaks*

Sheri L. Speaks  
Project Manager

3/30/2005



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## CHEMICAL EXAMINATION REPORT

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Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503565	03/17/2005 15:10	TRANSTEC	

### Alpha Analytical Laboratories, Inc.

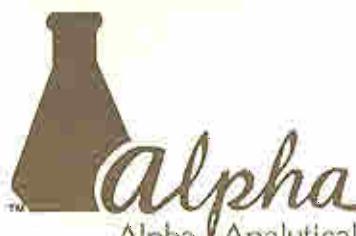
METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>MW-7 (A503565-07)</b>							
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Benzene	EPA 8260B	ACS2808	"	03/26/05	1	ND ug/l	0.30
Toluene	"	"	"	"	"	ND "	0.30
Ethylbenzene	"	"	"	"	"	ND "	0.50
Xylenes (total)	"	"	"	"	"	ND "	0.50
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Di-isopropyl ether	"	"	"	"	"	ND "	0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50
Tert-butyl alcohol	"	"	"	"	"	ND "	10
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
Surrogate: Bromofluorobenzene	"	"	"	"	98.4 %	45-147	
Surrogate: Dibromofluoromethane	"	"	"	"	88.8 %	85-129	
Surrogate: Toluene-d8	"	"	"	"	99.6 %	74-137	

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Project Manager

3/30/2005



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## CHEMICAL EXAMINATION REPORT

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Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number A503565	Receipt Date/Time 03/17/2005 15:10	Client Code TRANSTEC	Client PO/Reference
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### TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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#### Batch AC52801 - EPA 5030 Water GCMS

<b>Blank (AC52801-BLK1)</b> Prepared & Analyzed: 03/25/05									
TPH as Gasoline	ND	50	ug/l						
<i>Surrogate: Toluene-d8</i>	31.1	"		25.0	124	70-129			
<b>LCS (AC52801-BS1)</b> Prepared & Analyzed: 03/25/05									
TPH as Gasoline	190	50	ug/l	200	95.0	65-137			
<i>Surrogate: Toluene-d8</i>	24.8	"		25.0	99.2	70-129			
<b>LCS Dup (AC52801-BSD1)</b> Prepared & Analyzed: 03/25/05									
TPH as Gasoline	176	50	ug/l	200	88.0	65-137	7.65	20	
<i>Surrogate: Toluene-d8</i>	24.8	"		25.0	99.2	70-129			
<b>Matrix Spike (AC52801-MS1)</b> Source: A503567-01      Prepared & Analyzed: 03/25/05									
TPH as Gasoline	293	50	ug/l	200	ND	138	65-137		QM-05
<i>Surrogate: Toluene-d8</i>	24.7	"		25.0	98.8	70-129			

#### Batch AC52822 - EPA 3510B Water

<b>Blank (AC52822-BLK1)</b> Prepared & Analyzed: 03/28/05									
TPH as Diesel	ND	50	ug/l						
<i>Surrogate: 1,4-Bromofluorobenzene</i>	444	"		579	76.7	20-152			
<b>LCS (AC52822-BS1)</b> Prepared & Analyzed: 03/28/05									
TPH as Diesel	2150	50	ug/l	1960	110	52-136			
<i>Surrogate: 1,4-Bromofluorobenzene</i>	520	"		579	89.8	20-152			
<b>LCS Dup (AC52822-BSD1)</b> Prepared & Analyzed: 03/28/05									
TPH as Diesel	2120	50	ug/l	1960	108	52-136	1.41	25	

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3/30/2005



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## CHEMICAL EXAMINATION REPORT

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Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number A503565	Receipt Date/Time 03/17/2005 15:10	Client Code TRANSTEC	Client PO/Reference
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### TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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#### Batch AC52822 - EPA 3510B Water

LCS Dup (AC52822-BSD1)	Prepared & Analyzed: 03/28/05								
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Surrogate: 1,4-Bromofluorobenzene	496	"	579	85.7	20-152					
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#### Batch AC52908 - EPA 5030 Water GCMS

Blank (AC52908-BLK1)	Prepared & Analyzed: 03/28/05								
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TPH as Gasoline	ND	50	ug/l							
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Surrogate: Toluene-d8	25.4	"	25.0	102	70-129					
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LCS (AC52908-BS1)	Prepared & Analyzed: 03/28/05								
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TPH as Gasoline	170	50	ug/l	200	85.0	65-137				
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Surrogate: Toluene-d8	23.9	"	25.0	95.6	70-129					
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LCS Dup (AC52908-BSD1)	Prepared & Analyzed: 03/28/05								
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TPH as Gasoline	193	50	ug/l	200	96.5	65-137	12.7	20		
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Surrogate: Toluene-d8	24.3	"	25.0	97.2	70-129					
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Matrix Spike (AC52908-MS1)	Source: A503699-02	Prepared: 03/28/05	Analyzed: 03/29/05							
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TPH as Gasoline	208	50	ug/l	200	ND	98.0	65-137			
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Surrogate: Toluene-d8	24.2	"	25.0	96.8	70-129					
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3/30/2005







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## CHEMICAL EXAMINATION REPORT

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Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number A503565	Receipt Date/Time 03/17/2005 15:10	Client Code TRANSTEC	Client PO/Reference
-------------------------	---------------------------------------	-------------------------	---------------------

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AC52808 - EPA 5030 Water GCMS</b>										
<b>LCS Dup (AC52808-BSD1)</b>										
1,2-Dibromoethane (EDB)	9.50	0.50	"	10.0	95.0	84-117	14.6	25		
Surrogate: Bromofluorobenzene	23.4		"	25.0	93.6	45-147				
Surrogate: Dibromofluoromethane	21.7		"	25.0	86.8	85-129				
Surrogate: Toluene-d8	23.1		"	25.0	92.4	74-137				
<b>Matrix Spike (AC52808-MS1)</b>										
<b>Source: A503567-01</b>										
Benzene	4.21	0.30	ug/l	10.0	ND	42.1	63-144			QM-05
Toluene	4.17	0.30	"	10.0	ND	41.7	65-145			QM-05
Ethylbenzene	4.05	0.50	"	10.0	ND	40.5	57-155			QM-05
Xylenes (total)	11.8	0.50	"	30.0	ND	39.3	59-149			QM-05
Methyl tert-butyl ether	3.49	0.50	"	10.0	ND	34.9	62-156			QM-05
Di-isopropyl ether	3.67	0.50	"	10.1	ND	36.3	58-115			QM-05
Ethyl tert-butyl ether	3.40	0.50	"	10.2	ND	33.3	57-147			QM-05
Tert-amyl methyl ether	3.45	0.50	"	10.3	ND	33.5	53-153			QM-05
Tert-butyl alcohol	57.0	10	"	196	ND	29.1	41-147			QM-05
1,2-Dichloroethane	4.28	0.50	"	10.0	ND	42.8	61-134			QM-05
Chlorobenzene	4.11	0.50	"	10.0	ND	41.1	62-139			QM-05
1,3-Dichlorobenzene	3.78	0.50	"	10.0	ND	37.8	59-140			QM-05
1,4-Dichlorobenzene	4.04	0.50	"	10.0	ND	40.4	62-136			QM-05
1,2-Dichlorobenzene	3.88	0.50	"	10.0	ND	38.8	62-137			QM-05
1,2-Dibromoethane (EDB)	3.81	0.50	"	10.0	ND	38.1	58-140			QM-05
Surrogate: Bromofluorobenzene	24.2		"	25.0	96.8	45-147				
Surrogate: Dibromofluoromethane	22.4		"	25.0	89.6	85-129				
Surrogate: Toluene-d8	23.8		"	25.0	95.2	74-137				

### Batch AC52916 - EPA 5030 Water GCMS

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3/30/2005



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**CHEMICAL EXAMINATION REPORT**

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930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number A503565	Receipt Date/Time 03/17/2005 15:10	Client Code TRANSTEC	Client PO/Reference
-------------------------	---------------------------------------	-------------------------	---------------------

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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**Batch AC52916 - EPA 5030 Water GCMS**

**Blank (AC52916-BLK1)** Prepared & Analyzed: 03/28/05

Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
1,2-Dichloroethane	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							

Surrogate: Bromofluorobenzene	25.6	"	25.0	102	45-147
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Surrogate: Dibromofluoromethane	21.3	"	25.0	85.2	85-129
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Surrogate: Toluene-d8	25.4	"	25.0	102	74-137
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**LCS (AC52916-BS1)** Prepared & Analyzed: 03/28/05

Benzene	10.4	0.30	ug/l	10.0	104	79-116				
Toluene	10.4	0.30	"	10.0	104	83-120				
Ethylbenzene	10.7	0.50	"	10.0	107	81-119				
Xylenes (total)	31.3	0.50	"	30.0	104	79-121				
Methyl tert-butyl ether	10.4	0.50	"	10.0	104	73-127				
Di-isopropyl ether	11.0	0.50	"	10.1	109	69-96	QL-03			
Ethyl tert-butyl ether	12.0	0.50	"	10.2	118	76-117	QL-03			

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3/30/2005



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### CHEMICAL EXAMINATION REPORT

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Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
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Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503565	03/17/2005 15:10	TRANSTEC	

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AC52916 - EPA 5030 Water GCMS</b>										
<b>LCS (AC52916-BS1)</b>										
Tert-amyl methyl ether	10.9	0.50	"	10.3		106	80-122			
Tert-butyl alcohol	233	10	"	196		119	53-132			
1,2-Dichloroethane	9.86	0.50	"	10.0		98.6	78-115			
Chlorobenzene	10.3	0.50	"	10.0		103	82-112			
1,3-Dichlorobenzene	10.3	0.50	"	10.0		103	82-117			
1,4-Dichlorobenzene	10.4	0.50	"	10.0		104	85-113			
1,2-Dichlorobenzene	10.3	0.50	"	10.0		103	83-113			
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	84-117			
<i>Surrogate: Bromofluorobenzene</i>	23.2		"	25.0		92.8	45-147			
<i>Surrogate: Dibromofluoromethane</i>	22.6		"	25.0		90.4	85-129			
<i>Surrogate: Toluene-d8</i>	22.2		"	25.0		88.8	74-137			
<b>LCS Dup (AC52916-BSD1)</b>										
Benzene	10.4	0.30	ug/l	10.0		104	79-116	0.00	25	
Toluene	10.2	0.30	"	10.0		102	83-120	1.94	25	
Ethylbenzene	10.6	0.50	"	10.0		106	81-119	0.939	25	
Xylenes (total)	30.8	0.50	"	30.0		103	79-121	1.61	25	
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	73-127	1.94	25	
Di-isopropyl ether	11.1	0.50	"	10.1		110	69-96	0.905	25	QL-03
Ethyl tert-butyl ether	11.8	0.50	"	10.2		116	76-117	1.68	25	
Tert-amyl methyl ether	10.6	0.50	"	10.3		103	80-122	2.79	25	
Tert-butyl alcohol	241	10	"	196		123	53-132	3.38	25	
1,2-Dichloroethane	9.78	0.50	"	10.0		97.8	78-115	0.815	25	
Chlorobenzene	9.97	0.50	"	10.0		99.7	82-112	3.26	25	
1,3-Dichlorobenzene	10.1	0.50	"	10.0		101	82-117	1.96	25	
1,4-Dichlorobenzene	10.5	0.50	"	10.0		105	85-113	0.957	25	
1,2-Dichlorobenzene	10.4	0.50	"	10.0		104	83-113	0.966	25	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Sheri Speaks*

Sheri L. Speaks  
Project Manager

3/30/2005



Alpha Analytical Laboratories Inc.

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208 Mason St. Ukiah, California 95482

### CHEMICAL EXAMINATION REPORT

Page 16 of 17

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number A503565	Receipt Date/Time 03/17/2005 15:10	Client Code TRANSTEC	Client PO/Reference
-------------------------	---------------------------------------	-------------------------	---------------------

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag	
<b>Batch AC52916 - EPA 5030 Water GCMS</b>											
<b>LCS Dup (AC52916-BSD1)</b>					Prepared & Analyzed: 03/28/05						
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0	ND	107	84-117	1.89	25		
Surrogate: Bromofluorobenzene	23.4		"	25.0		93.6	45-147				
Surrogate: Dibromofluoromethane	23.2		"	25.0		92.8	85-129				
Surrogate: Toluene-d8	22.2		"	25.0		88.8	74-137				
<b>Matrix Spike (AC52916-MS1)</b>					<b>Source: A503699-01</b>	Prepared & Analyzed: 03/28/05					
Benzene	11.1	0.30	ug/l	10.0	ND	111	63-144				
Toluene	10.9	0.30	"	10.0	ND	109	65-145				
Ethylbenzene	10.9	0.50	"	10.0	ND	109	57-155				
Xylenes (total)	31.5	0.50	"	30.0	ND	105	59-149				
Methyl tert-butyl ether	10.9	0.50	"	10.0	ND	109	62-156				
Di-isopropyl ether	11.8	0.50	"	10.1	ND	117	58-115			QM-05	
Ethyl tert-butyl ether	12.8	0.50	"	10.2	ND	125	57-147				
Tert-amyl methyl ether	11.4	0.50	"	10.3	ND	111	53-153				
Tert-butyl alcohol	262	10	"	196	ND	134	41-147				
1,2-Dichloroethane	10.5	0.50	"	10.0	ND	105	61-134				
Chlorobenzene	10.6	0.50	"	10.0	ND	106	62-139				
1,3-Dichlorobenzene	9.66	0.50	"	10.0	ND	96.6	59-140				
1,4-Dichlorobenzene	16.3	0.50	"	10.0	ND	103	62-136				
1,2-Dichlorobenzene	10.7	0.50	"	10.0	ND	107	62-137				
1,2-Dibromoethane (EDB)	11.3	0.50	"	10.0	ND	113	58-140				
Surrogate: Bromofluorobenzene	23.9		"	25.0		95.6	45-147				
Surrogate: Dibromofluoromethane	23.0		"	25.0		92.0	85-129				
Surrogate: Toluene-d8	22.8		"	25.0		91.2	74-137				

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Shari Speaks*

Sheri L. Speaks  
Project Manager

3/30/2005



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208 Mason St. Ukiah, California 95482

## CHEMICAL EXAMINATION REPORT

Page 17 of 17

Trans Tech Consultants  
930 Shiloh Rd., Bldg.44, Suite J  
Windsor, CA 95492  
Attn: Bill Wiggins

Report Date: 03/30/05 11:42

Project No: 3034.01

Project ID: Tipple Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503565	03/17/2005 15:10	TRANSTEC	

### Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates.
- R-06 The Reporting Limits for this analysis have been raised to account for matrix interference.
- R-04 The Reporting Limits for this analysis are elevated due to sample foaming.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit



# WORK ORDER CHAIN OF CUSTODY RECORD

**Alpha Analytical Laboratories Inc.** • 208 Mason Street, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

DATE 3/16/05 PAGE 1 OF 1

CLIENT'S NAME <i>Tark Triple</i>	PROJECT MANAGER <i>Bill Williams</i>	ANALYSES <i>214</i>	SAMPLE CONDITION ON RECEIPT: <i>7/2</i>			
STREET ADDRESS <i>1500 E. Main Street</i>	STATE <i>CA</i>	ZIP <i>95482</i>	COLD/ICED? <i>No</i>			
PROJECT NAME <i>Triple Motors</i>	FAX NUMBER <i>(707) 468-5267</i>	SITE CONTACT <i>Brian Hask</i>	BUBBLES OR AIR SPACE? <i>No</i>			
CONTRACT/PURCHASE ORDER/QUOTE NUMBER <i>303401</i>						
SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM						
SAMPLE NUMBER/IDENTIFICATION <i>MW-1</i>	DATE <i>3/16/05</i>	TIME <i>11:00</i>	LAB SAMPLE NUMBER <i>A50351051X</i>	SAMPLE TYPE <i>2X</i>	NO. OF CONTNS. <i>5</i>	EXPLAIN IRREGULARITIES BELOW <i>No irregularities found.</i>
MW-2		14:00		3X	5	
MW-3		12:50		4X	5	
MW-4		1:30		5X	5	
MW-5		1:20		6X	5	
MW-6		1:00		7X	5	
MW-7		12:40				
<i>Best practices</i>						
RELINQUISHED BY: (SIGNATURE) <i>J. H.</i>	RECEIVED BY: (SIGNATURE) <i>J. H.</i>	DATE <i>3/16/05</i>	TIME <i>1:20</i>	TURN AROUND TIME REQUESTED		
RELINQUISHED BY: (SIGNATURE) <i>J. H.</i>	RECEIVED BY: (SIGNATURE) <i>J. H.</i>	DATE <i>3/16/05</i>	TIME <i>1:50</i>			
RELINQUISHED BY: (SIGNATURE) <i>J. H.</i>	RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>J. H.</i>	DATE <i>3/16/05</i>	TIME <i>1:50</i>	SAMPLE CONTROL OFFICER		
METHOD OF SHIPMENT				SAMPLE DEPOSITION:		
SPECIAL INSTRUCTIONS				1. STORAGE TIME REQUESTED <u>30</u> DAYS WITHOUT ADDITIONAL CHARGES. (SAMPLES WILL BE STORED FOR 30 DAYS, THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.) 2. SAMPLE TO BE RETURNED TO CLIENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
DRIVING TIME	SITE TIME	TOTAL TIME				

## APPENDIX D

### APPENDIX D

#### APPENDIX D

##### APPENDIX D

###### APPENDIX D

**Appendix D - Historical Laboratory Analytical Results**

Sample Date	Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
<b>µg/L</b>								
4/17/99	MW-1	NS	NS	NS	NS	NS	NS	NS
	MW-2	32,000	NA	5,600	200	720	2,100	<80
	MW-3	NS	NS	NS	NS	NS	NS	NS
	MW-4	2,500	NA	540	8.2	16	14	73
	MW-5	260	NA	0.49	0.59	0.50	0.53	<1.0
12/29/99	MW-1	NS	NS	NS	NS	NS	NS	NS
	MW-2	ND	ND	ND	ND	ND	ND	ND
	MW-3	NS	NS	NS	NS	NS	NS	NS
	MW-4	3,100	NA	59	ND	6.5	10	38
	MW-5	790	NA	0.84	11	1.2	1.8	16
3/28/00	MW-1	88	ND	0.85	0.53	ND	ND	8.7
	MW-2	13,000	1,300*	4,500	160	480	1,200	10
	MW-3	ND	ND	ND	ND	ND	ND	ND
	MW-4	1,500	330*	140	ND	6.7	ND	45
	MW-5	200	ND	1.1	ND	ND	ND	ND
7/05/00	MW-1	ND	NA	ND	ND	ND	ND	11
	MW-2	41,000	NA	3,400	190	860	2,000	ND
	MW-3	ND	NA	ND	ND	ND	ND	ND
	MW-4	1,300	NA	160	10	14	18	15
	MW-5	59	NA	ND	ND	ND	ND	ND

< = Indicates the laboratory test method detection limit.  
 \* = Higher boiling point constituents of gasoline are present.  
 ND = Not detected.  
 NS = Not sampled.  
 NA = Not analyzed.



**Appendix D - Continued**

Sample Date	Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
$\mu\text{g/L}$								
10/11/00	MW-1	ND	NA	0.64	ND	ND	ND	23
	MW-2	8,600	NA	1,100	ND	180	350	ND**
	MW-3	ND	NA	ND	ND	ND	ND	ND
	MW-4	400	NA	9.6	3.6	2.3	3.9	46**
	MW-5	290	NA	2.1	1.1	1.7	ND	ND**
12/19/00	MW-1	ND	ND	ND	ND	ND	ND	ND
	MW-2	10,000	1500*	1,400	56	320	610	ND**
	MW-3	ND	ND	ND	ND	ND	ND	ND
	MW-4	1,300	89*	110	4.9	12	12	ND**
	MW-5	410	120*	2.6	1.6	1.9	1.6	ND**
03/28/01	MW-1	ND	ND	ND	ND	ND	ND	27**
	MW-2	19,000	2,500*	3,900	160	730	1,400	ND
	MW-3	ND	ND	ND	ND	ND	ND	ND
	MW-4	1,500	210*	220	17	16	21	48**
	MW-5	260	ND	2.1	1.2	1.4	ND	ND**
07/26/01	MW-1	ND	ND	ND	ND	ND	ND	19
	MW-2	18,000	220*	3,100	130	470	880	ND
	MW-3	ND	ND	ND	ND	ND	ND	ND
	MW-4	540	ND	48	ND	ND	ND	47
	MW-5	120	ND	0.78	ND	0.80	ND	ND

< = Indicates the laboratory test method detection limit.  
 \* = Higher boiling point constituents of gasoline are present.  
 \*\* = Other oxygenated fuel additives present (see laboratory report)  
 NA = Not analyzed.  
 ND = Not detected above the reported laboratory detection limits.



**Appendix D - Continued**

Sample Date	Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
<b>µg/L</b>								
10/16/01	MW-1	<50	<50	<1.0	<1.0	<1.0	<1.0	14**
	MW-2	170,000	1,400*	1,800	<100***	400	730	<100***
	MW-3	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0
	MW-4	200	200	7.3	<1.0	<1.0	<1.0	33**
	MW-5	68	68	<1.0	<1.0	<1.0	<1.0	<1.0**
01/15/02	MW-1	<50	<50	<0.3	<0.3	<0.5	<0.5	21**
	MW-2	20,000	2,500	2,700	84	290	1,100	10**
	MW-3	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5
	MW-4	850	<50	110	2.4	6.2	3.7	40**
	MW-5	390	140*	0.67	<0.3	1.2	<0.5	<0.5**
04/22/02	MW-1	89	<50	3.1	1.1	2.0	3.8	26**
	MW-2	34,000	1,500*	4,600	<300***	770	2,800	<500***
	MW-3	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5
	MW-4	610	180*	100	3.4	5.3	5.4	44**
	MW-5	410	160*	0.84	0.80	1.6	1.4	<0.5**

< = Indicates the laboratory test method detection limit.

\* = Higher boiling point constituents of gasoline are present.

\*\* = Other oxygenated fuel additives present (see laboratory report)

\*\*\* = Laboratory reporting limit raised due to matrix interference.



**Appendix D - Continued**

Date	Sample ID	TPH-gasoline	TPH-diesel	B	T	E	X	MtBE	1,2-dichloroethane
		µg/L							
07/23/02	MW-1	<50	82*	<0.30	<0.30	<0.50	<0.50	32**	NA
	MW-2	35,000	2,800*	4,400	81	730	820	<50	NA
	MW-3	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**	NA
	MW-4	550	65*	53	0.73	2.9	1.9	<0.50**	NA
	MW-5	180	<50	0.70	<0.30	0.64	<0.50	<0.50	NA
12/02/02	MW-1	<50	<65	<0.30	<0.30	<0.50	<0.50	38**	<50
	MW-2	29,000	1,600	6,000	110	960	1,200	<50**	99
	MW-3	<50	<65	<0.30	<0.30	<0.50	<0.50	<0.50**	<0.50
	MW-4	350	320	25	0.73	1.9	1.0	45**	1.0
	MW-5	190	320	0.35	<0.30	0.58	<0.50	<0.50**	<0.50
	MW-6	<50	<65	<0.30	<0.30	<0.50	<0.50	<0.50**	<0.50
	MW-7	<50	<100	<0.30	<0.30	<0.50	<0.50	0.61	<0.50
03/27/03	MW-1	57	<50	<0.60	<0.60	<1.0	<1.0	44**	NA
	MW-2	40,000	4,300*	4,500	230	2,000	2,100	<50**	NA
	MW-3	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50	NA
	MW-4	1,400	150*	77	2.2	6.9	6.0	26**	NA
	MW-5	650	78*	0.92	<0.60	1.8	<1.0	<1.0**	NA
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**	NA
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50	NA
<p>&lt; = Indicates the laboratory test method detection limit.          * = Higher boiling point constituents of gasoline are present.          ** = Other oxygenated fuel additives present (see laboratory report)          NA = Not Analyzed</p>									



**Appendix D - Continued**

Sample Date	Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
$\mu\text{g/L}$								
05/15/03	MW-1	<50	<50	<0.60	<0.60	<1.0	<1.0	43**
	MW-2	26,000	4,800*	3,100	<300***	<500***	<500***	<500***
	MW-3	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5
	MW-4	780	130*	140	<30	<30	<50	<50
	MW-5	340	80*	<1.5	<1.5	<2.5	<2.5	<2.5**
	MW-6	<50	<50	<0.6	<0.6	<1.0	<1.0	<1.0**
	MW-7	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5
09/11/03	MW-1	<50	<50	<30	<30	<50	<50	64
	MW-2	23,000	2,800*	4,000	71	620	520	<50**
	MW-3	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**
	MW-4	280	<50	<30	<30	<50	<50	<50
	MW-5	260	<50	<30	<30	<50	<50	<50
	MW-6	<50	<50	<15	<15	<25	<25	<25
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
3/05/04	MW-1	<50	<50	<3.0	<3.0	<5.0	<5.0	43
	MW-2	21,000	2,600*	3,900	120	610	<120	<50
3/04/04	MW-3	<50	80	<0.30	<0.30	<0.50	<0.50	<0.50
3/05/04	MW-4	1000	95*	96	<6.0	<10	<10	43
	MW-5	460	71*	<6.0	<6.0	<10	<10	<10
3/04/04	MW-6	<50	81	<0.6	<0.6	<1.0	<1.0	<1.0
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

< = Indicates the laboratory test method detection limit.  
 \* = Higher boiling point constituents of gasoline are present.  
 \*\* = Other oxygenated fuel additives present (see laboratory report)  
 \*\*\* = Laboratory reporting limit raised due to matrix interference.



**Appendix D - Continued**

Sample Date	Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
		µg/L						
7/01/04	MW-1	NA	<50	<3.0	<3.0	<5.0	<5.0	64**
	MW-2	80,000	2,900*	9,400	240	860	600	<250
	MW-3	<50	<50	<1.5	<1.5	<2.5	<2.5	<2.5
	MW-4	360	97*	14	<3.0	<5.0	<5.0	25**
	MW-5	120	<50	<3.0	<3.0	<5.0	<5.0	<5.0**
	MW-6	<50	<50	<1.5	<1.5	<2.5	<2.5	<2.5**
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

< = Indicates the laboratory test method detection limit.

NA = Not analyzed due to broken sample containers.

\* = Higher boiling point constituents of gasoline are present.

\*\* = Other oxygenated fuel additives present (see laboratory report)

Sample Date	Well ID	Total Alkalinity as CaCO <sub>3</sub>	Dissolved Oxygen (DO)	Nitrate (NO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )
		mg/L			
7/01/04	MW-1	NA	1.12	NA	NA
	MW-2	720	0.85	<1.0	0.56
	MW-3	170	1.08	<1.0	5.7
	MW-4	520	1.08	<1.0	5.3
	MW-5	280	0.53	<1.0	1.1
	MW-6	NA	2.60	NA	NA
	MW-7	260	2.12	2.2	10

< = Indicates the laboratory test method detection limit.

NA = Not analyzed.



**Appendix D - Continued**

Sample Date	Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
<b>µg/L</b>								
03/16/05	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	54**
	MW-2 <sup>++</sup>	<b>46,000</b>	<b>1,500*</b>	<b>4,500</b>	<b>230</b>	<b>1,300</b>	<b>750</b>	<50**
	MW-3	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-4 <sup>+</sup>	<500	<b>120*</b>	<b>47</b>	<3.0	<5.0	<5.0	18**
	MW-5 <sup>+</sup>	<1000	<b>75</b>	<6.0	<6.0	<10	<10	<10**
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
<p>&lt; = Indicates the laboratory test method detection limit.</p> <p>+ = Reporting Limits have been raised due to sample foaming.</p> <p>++ = Reporting Limits have been raised to account for matrix interference.</p> <p>* = Results in the diesel organics range are primarily due to overlap from a gasoline range product.</p> <p>** = Other oxygenated fuel additives / lead scavengers present (see laboratory report)</p>								

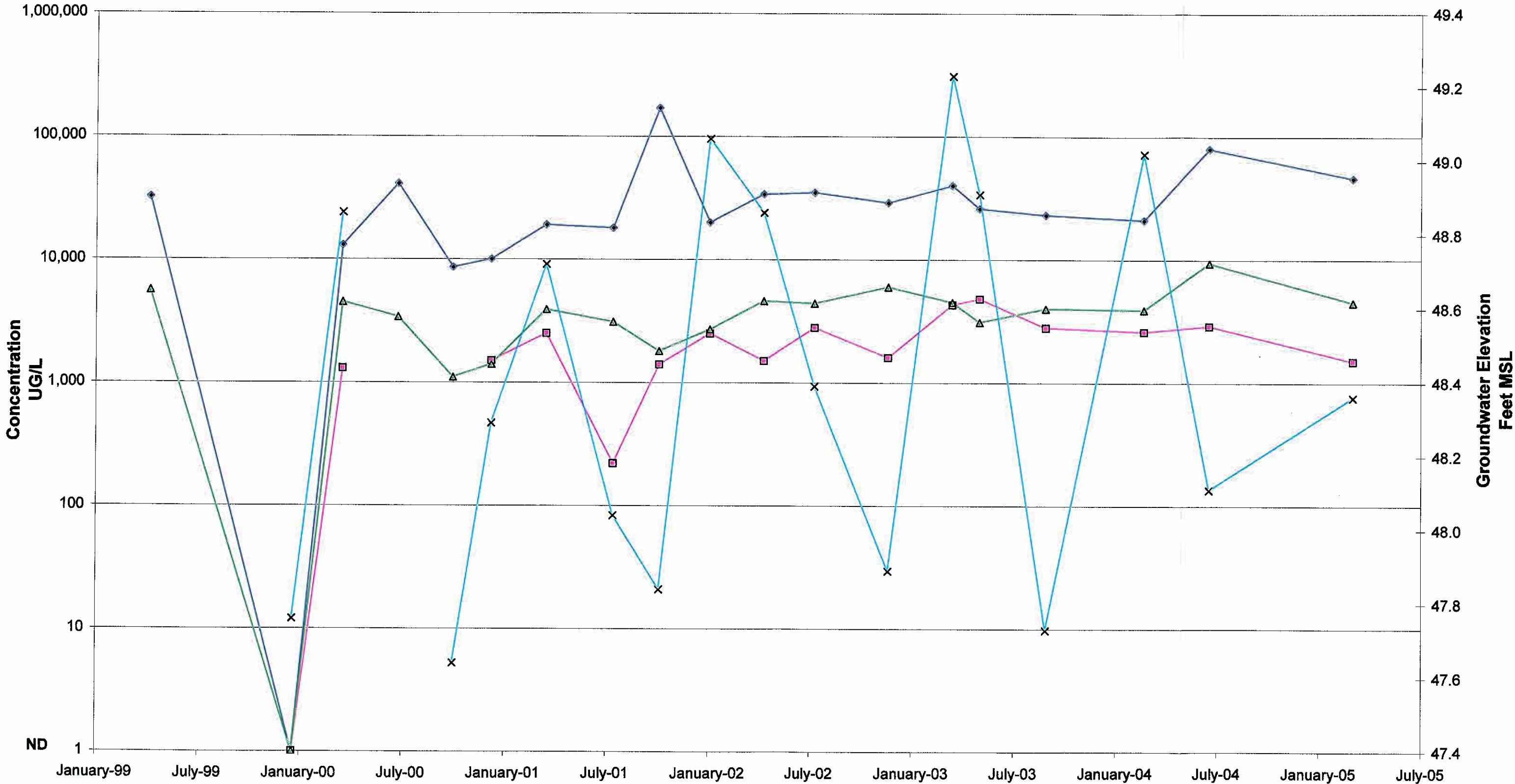




## APPENDIX E

Category	Definition	Example
1. <i>Physical</i>	Physical damage to the body.	Fracture, sprain, contusion, laceration, burn, etc.
2. <i>Chemical</i>	Chemical damage to the body.	Poisoning, drug reaction, etc.
3. <i>Biological</i>	Biological damage to the body.	Infection, disease, etc.
4. <i>Social</i>	Social damage to the body.	Abuse, neglect, etc.
5. <i>Psychological</i>	Psychological damage to the body.	Stress, depression, anxiety, etc.
6. <i>Environmental</i>	Environmental damage to the body.	Pollution, climate, etc.
7. <i>Technological</i>	Technological damage to the body.	Accident, equipment failure, etc.
8. <i>Financial</i>	Financial damage to the body.	Debt, bankruptcy, etc.
9. <i>Emotional</i>	Emotional damage to the body.	Grief, loss, etc.
10. <i>Intellectual</i>	Intellectual damage to the body.	Memory loss, dementia, etc.
11. <i>Spiritual</i>	Spiritual damage to the body.	Loss of faith, etc.
12. <i>Physical</i>	Physical damage to the body.	Fracture, sprain, contusion, laceration, burn, etc.
13. <i>Chemical</i>	Chemical damage to the body.	Poisoning, drug reaction, etc.
14. <i>Biological</i>	Biological damage to the body.	Infection, disease, etc.
15. <i>Social</i>	Social damage to the body.	Abuse, neglect, etc.
16. <i>Psychological</i>	Psychological damage to the body.	Stress, depression, anxiety, etc.
17. <i>Environmental</i>	Environmental damage to the body.	Pollution, climate, etc.
18. <i>Technological</i>	Technological damage to the body.	Accident, equipment failure, etc.
19. <i>Financial</i>	Financial damage to the body.	Debt, bankruptcy, etc.
20. <i>Emotional</i>	Emotional damage to the body.	Grief, loss, etc.
21. <i>Intellectual</i>	Intellectual damage to the body.	Memory loss, dementia, etc.
22. <i>Spiritual</i>	Spiritual damage to the body.	Loss of faith, etc.

**Time Vs. Concentration Graph MW-2**  
**TTC Job# 3034.01**  
**Tipple Motors**  
**524 Main Street, Ferndale, California**



ND=Below Reported Detection Limit

NOTE: Results in the diesel organics range are primarily due to overlap from a gasoline range product (see laboratory reports).

◆ TPH as Gasoline UG/L ■ TPH as Diesel UG/L ▲ Benzene ✕ Water Elevation

## **DISTRIBUTION LIST**

### **1<sup>st</sup> Quarter 2005 Monitoring Report**

**Tipple Motors, Inc.  
524 Main Street  
Ferndale, California**

**April 11, 2005  
Job No. 3034.01**

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